Mar. 11, 1980 [45]

[54]	BONE REPLACEMENT OR PROSTHESIS ANCHORING MATERIAL				
[75]	Inventors:	Heinrich Deibig, Frankfurt am Main; Helmut Heide, Schwalbach; Roland Reiner, Eschborn; Kari Koster, Lorsbach, all of Fed. Rep. of Germany			
[73]	Assignee:	Batelle-Institut e.V., Frankfurt am Main, Fed. Rep. of Germany			
[21]	Appl. No.:	796,165			
[22]	Filed:	May 12, 1977			
[30] Foreign Application Priority Data					
May 12, 1976 [DE] Fed. Rep. of Germany 2620890 May 12, 1976 [DE] Fed. Rep. of Germany 2620891					
[58]	Field of Sea	106/161; 427/2; 128/92 C, 92 R; 3/1.9			

	R	deferences Cited	
	U.S. PA	TENT DOCUMENTS	
3,261	5/1969	Battista et al	106
3,860	1/1973	Auskern	4

3,443,261	5/1969	Battista et al 106/161	
3,713,860	1/1973	Auskern 427/2	
3,767,437	10/1973	Cruz 106/161	
3,787,900	1/1974	McGee 106/35	
3,867,190	2/1975	Schmitt et al 427/2	
4,032,993	7/1977	Coquard 128/334 R	

Primary Examiner—Theodore Morris Attorney, Agent, or Firm-Fisher, Christen & Sabol

## **ABSTRACT**

[56]

Bone replacement or prosthesis anchoring material on the basis of sintered calcium phosphates which consists of a mixture of calcium phosphates with low or highmolecular-weight organic substances. More specifically, the anchoring material consists of a mixture of calcium phosphates composed of CaO and P2O5 in a quantitative ratio of 2:1 to 4:1 with biodegradable polymers in a ratio of 10:1 to 1:1 of phosphate to polymer and is implantable as a solid body. A method for the production of the material wherein calcium phosphate with a porosity of 15 to 30 volume percent is used and its pores are filled by impregnation with polymer material.

15 Claims, No Drawings